

P 89

Q 3 pt. C

Q 4

$$\begin{array}{r} 3 \quad a) \quad \frac{1}{27} \\ 27 \overline{) 1.0000} \\ \underline{-81} \\ 190 \\ \underline{-189} \\ 1.00 \end{array}$$

$$\begin{array}{r} 0.037 \\ \times 2 \\ \hline 0.074 \end{array}$$

$$\begin{array}{r} b) \quad \frac{2}{27} \\ 27 \overline{) 2.00} \\ \underline{-189} \\ 110 \\ \underline{-108} \\ 2 \end{array}$$

$$\begin{array}{r} c) \quad \frac{3}{27} 0.11 \\ 27 \overline{) 3.00} \\ \underline{-27} \\ 30 \\ \underline{-27} \\ 3 \end{array}$$

$$\begin{array}{r} 0.037 \\ \times 3 \\ \hline 0.111 \end{array}$$

Pattern: The decimal for each
is a multiple of the first. $\frac{1}{27} = 0.037$

$$\text{So } \frac{2}{27} = 2 \times 0.037 = 0.074$$

$$\text{c) } \frac{1}{27} = 0.037$$

$$\text{i) } \frac{4}{27} = 4 \times 0.037 = 0.148 \quad \begin{array}{r} 0.037 \\ \times 4 \\ \hline 0.148 \end{array}$$

$$\text{ii) } \frac{5}{27} = 5 \times 0.037 = 0.185$$

$$\text{iii) } \frac{8}{27} = 8 \times 0.037 = 0.296 \quad \begin{array}{r} 0.037 \\ \times 8 \\ \hline 0.296 \end{array}$$

$$4. a) \frac{2^{x2}}{5^{x2}} = \frac{4^{x10}}{10^{x10}} = \frac{40^{x10}}{100^{x10}} = \frac{400}{1000} \quad \text{Ud 1 u}$$

$$0.4 \quad 0.4 \quad 0.4 \quad 0.4$$

$$b) \frac{1^{x25}}{4^{x25}} = \frac{NA}{10} = \frac{25^{x10}}{100^{x10}} = \frac{250}{1000}$$

$$0.25 \quad 0.25 \quad 0.25$$

$$c) \frac{13^{x4}}{25^{x4}} = \frac{NA}{10} = \frac{52^{x10}}{100^{x10}} = \frac{520}{1000}$$

$$0.52 = 0.52 = 0.52$$

$$5. \text{ a) } 0.\overline{6} = \frac{2}{3} \quad \text{b) } 0.\overline{5}$$

$$0.\overline{66}$$

$$0.\overline{55}$$

$$\approx \frac{66}{100}$$

$$\approx \frac{55}{100}$$

$$\approx \frac{33}{50}$$

$$\approx \frac{11}{20}$$

pg 89-90

5, 6, 10, 11

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